

# Conversion factors

## Length Conversion

Convert		}	Into		}	Multiply by factor	
inches	<b>in</b>		millimetres	<b>mm</b>		25.4	
feet	<b>ft</b>	metres	<b>m</b>	0.3048			
yards	<b>yd</b>	metres	<b>m</b>	0.9144			
miles	<b>mile</b>	kilometres	<b>km</b>	1.609344			
millimetres	<b>mm</b>	inches	<b>in</b>	0.0394			
metres	<b>m</b>	feet	<b>ft</b>	3.28084			
kilometres	<b>km</b>	miles	<b>mile</b>	0.621371			

## Area Conversion

Convert		}	Into		}	Multiply by factor	
square yards	<b>yd<sup>2</sup></b>		square metres	<b>m<sup>2</sup></b>		0.836	
square feet	<b>ft<sup>2</sup></b>	square metres	<b>m<sup>2</sup></b>	0.092903			
square inches	<b>in<sup>2</sup></b>	square millimetres	<b>mm<sup>2</sup></b>	645.16			
square inches	<b>in<sup>2</sup></b>	square centimetres	<b>cm<sup>2</sup></b>	6.4516			
square meters	<b>m<sup>2</sup></b>	square yards	<b>yd<sup>2</sup></b>	1.9599			
square meters	<b>m<sup>2</sup></b>	square feet	<b>ft<sup>2</sup></b>	10.7639			
square millimetres	<b>mm<sup>2</sup></b>	square inches	<b>in<sup>2</sup></b>	0.00155			
square centimetres	<b>cm<sup>2</sup></b>	square inches	<b>in<sup>2</sup></b>	0.155			

## Volume Conversion

Convert		}	Into		}	Multiply by factor	
cubic inches	<b>in<sup>3</sup></b>		cubic centimetres	<b>cm<sup>3</sup></b>		16.3871	
cubic inches	<b>in<sup>3</sup></b>	cubic decimetre	<b>dm<sup>3</sup></b>	0.0163871			
cubic feet	<b>ft<sup>3</sup></b>	cubic metre	<b>m<sup>3</sup></b>	0.0283168			
cubic feet	<b>ft<sup>3</sup></b>	cubic decimetre	<b>dm<sup>3</sup></b>	28.3168			
UK gallon	<b>gal</b>	cubic decimetre	<b>dm<sup>3</sup></b>	4.54609			
cubic centimetres	<b>cm<sup>3</sup></b>	cubic inches	<b>in<sup>3</sup></b>	0.0610237			
cubic decimetres	<b>cm<sup>3</sup></b>	cubic inches	<b>in<sup>3</sup></b>	61.0237			
cubic decimetres	<b>dm<sup>3</sup></b>	cubic feet	<b>ft<sup>3</sup></b>	0.0353147			
cubic decimetres	<b>dm<sup>3</sup></b>	UK gallon	<b>gal</b>	0.219969			
cubic metres	<b>m<sup>3</sup></b>	cubic feet	<b>ft<sup>3</sup></b>	35.3147			

## Mass Conversion

Convert		}	Into		}	Multiply by factor	
pound	<b>lb</b>		kilogram	<b>kg</b>		0.45359237	
UK ton	<b>ton</b>	tonne (1000 kg)	<b>t</b>	1.01605			
ounce	<b>oz</b>	gram	<b>g</b>	28.3495			
kilogram	<b>kg</b>	pound	<b>lb</b>	2.20462			
tonne (1000 kg)	<b>t</b>	UK ton	<b>ton</b>	0.984207			
gram	<b>g</b>	ounce	<b>oz</b>	0.035274			

## Mass Per Unit

Convert		}	Into		}	Multiply by factor	
pounds per inch	<b>lb/in</b>		kilogram per metre	<b>kg/m</b>		17.858	
pounds per foot	<b>lb/ft</b>	kilogram per metre	<b>kg/m</b>	1.48816			
kilogram per metre	<b>kg/m</b>	pounds per inch	<b>lb/in</b>	0.055997			
kilogram per metre	<b>kg/m</b>	pounds per foot	<b>lb/ft</b>	0.671969			

Density Conversion

Convert		Into		Multiply by factor
pounds per cubic inch	<b>lb/in<sup>3</sup></b>	gram per cubic centimetre	<b>g/cm<sup>3</sup></b>	27.6799
pounds per cubic foot	<b>lb/ft<sup>3</sup></b>	kilogram per cubic metre	<b>kg/m<sup>3</sup></b>	0.0160185
ounce per UK gallon	<b>oz/UK gal</b>	gram per cubic metre	<b>g/m<sup>3</sup></b>	6236.03
ounce per UK gallon	<b>oz/UK gal</b>	milligram per litre	<b>mg/litre</b>	6236.03
gram per cubic centimetre	<b>g/cm<sup>3</sup></b>	pounds per cubic inch	<b>lb/in<sup>3</sup></b>	0.0361273
kilogram per cubic metre	<b>kg/m<sup>3</sup></b>	pounds per cubic foot	<b>lb/ft<sup>3</sup></b>	62.428
gram per cubic metre	<b>g/m<sup>3</sup></b>	ounce per UK gallon	<b>oz/UK gal</b>	1.6036E-04
milligram per litre	<b>mg/litre</b>	ounce per UK gallon	<b>oz/UK gal</b>	1.6036E-04

Force Conversion

Convert		Into		Multiply by factor
pound-force	<b>lbf</b>	newton	<b>N</b>	4.44822
ounce-force	<b>ozf</b>	newton	<b>N</b>	0.278014
poundal	<b>pdl</b>	newton	<b>N</b>	0.138255
kilogram-force	<b>kgf</b>	newton	<b>N</b>	9.80665
newton	<b>N</b>	kilogram-force	<b>kgf</b>	0.101972
newton	<b>N</b>	pound-force	<b>lbf</b>	0.224809
newton	<b>N</b>	ounce-force	<b>ozf</b>	3.59694
newton	<b>N</b>	poundal	<b>pdl</b>	7.23301

Moment of Force (Torque)

Convert		Into		Multiply by factor
pound-force foot	<b>lbf.ft</b>	newton metre	<b>Nm</b>	1.35582
pound-force inch	<b>lbf.in</b>	newton metre	<b>Nm</b>	0.112985
ounce-force inch	<b>ozf.in</b>	newton metre	<b>Nm</b>	0.0070616
pound-force foot	<b>lbf.ft</b>	kilogram-force metre	<b>kgf.m</b>	0.138255
pound-force inch	<b>lbf.in</b>	kilogram-force metre	<b>kgf.m</b>	0.011521
newton metre	<b>Nm</b>	pound-force foot	<b>lbf.ft</b>	0.737562
newton metre	<b>Nm</b>	pound-force inch	<b>lbf.in</b>	8.85075
newton metre	<b>Nm</b>	ounce-force inch	<b>ozf.in</b>	141.612

Stress Conversion

Convert		Into		Multiply by factor
UK ton-force per square inch	<b>tonf/in<sup>2</sup></b>	newton per square millimetre	<b>N/mm<sup>2</sup></b>	15.4443
UK ton-force per square inch	<b>tonf/in<sup>2</sup></b>	meganewton per square metre	<b>MN/m<sup>2</sup></b>	15.4443
UK ton-force per square inch	<b>tonf/in<sup>2</sup></b>	megapascal	<b>Mpa</b>	15.4443
newton per square millimetre	<b>N/mm<sup>2</sup></b>	UK ton-force per square inch	<b>tonf/in<sup>2</sup></b>	0.064749
meganewton per square metre	<b>MN/m<sup>2</sup></b>	UK ton-force per square inch	<b>tonf/in<sup>2</sup></b>	0.064749
megapascal	<b>Mpa</b>	UK ton-force per square inch	<b>tonf/in<sup>2</sup></b>	0.064749

Volume Conversion

Convert		Into		Multiply by factor
pound-force per square inch	<b>lbf/in<sup>2</sup></b>	newton per square metre	<b>N/m<sup>2</sup></b>	6894.76
pound-force per square inch	<b>lbf/in<sup>2</sup></b>	pascal	<b>Pa</b>	6894.76
pound-force per square inch	<b>lbf/in<sup>2</sup></b>	kilonewton per square metre	<b>kN/m<sup>2</sup></b>	6894.76
inch of water	<b>in H<sub>2</sub>O</b>	newton per square metre	<b>N/m<sup>2</sup></b>	2.59008
inch of mercury	<b>in Hg</b>	newton per square metre	<b>N/m<sup>2</sup></b>	35.21243
newton per square metre	<b>N/m<sup>2</sup></b>	pound-force per square inch	<b>lbf/in<sup>2</sup></b>	1.45038x10 <sup>(-4)</sup>
pascal	<b>Pa</b>	pound-force per square inch	<b>lbf/in<sup>2</sup></b>	1.45038x10 <sup>(-4)</sup>
kilonewton per square metre	<b>kN/m<sup>2</sup></b>	pound-force per square inch	<b>lbf/in<sup>2</sup></b>	0.145038
newton per square metre	<b>N/m<sup>2</sup></b>	inch of water	<b>in H<sub>2</sub>O</b>	0.38609
newton per square metre	<b>N/m<sup>2</sup></b>	inch of mercury	<b>in Hg</b>	0.028399